

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1 1. (Currently amended): A method performed by a presentation recorder
2 device of communicating information received during a multimedia presentation, comprising:
3 receiving first information at the presentation recorder device from a first system
4 coupled to the presentation recorder device, the first information including at least one of video
5 information or audio information generated using the first system from a presentation file;
6 receiving second information at the presentation recorder device from a set of
7 capture devices, the second information including at least one of video information or audio
8 information from a capture device in the set of capture devices, the second information captured
9 by the capture device during the multimedia presentation;
10 analyzing video information received from the first system or video information
11 received from the capture device [[at]] with the presentation recorder device to determine a
12 textual difference between a first video frame and a second video frame using one or more
13 optical character recognition techniques;
14 selecting a set of one or more keyframes [[at]] with the presentation recorder
15 device from the analyzed video information received from the first system or the analyzed video
16 information received from the capture device in response to a user-configurable threshold and
17 the textual difference between a first video frame and a second video frame;
18 analyzing the first information and the second information [[at]] with the
19 presentation recorder device to extract textual information with the presentation recorder device
20 from video information or the audio information in the first information or video information or
21 the audio information in the second information using one or more text recognition techniques;
22 generating a presentation representation at the presentation recorder device of the
23 first information and the second information, the presentation representation including a

24 representation of each keyframe in the set of keyframes and the textual information extracted by
25 the presentation recorder device from the first information or the second information;
26 communicating at least a portion of the presentation representation from the
27 presentation recorder device to one or more devices, the communicated portion of the
28 presentation representation including one or more keyframes from the set of keyframes and a
29 portion of the textual information.

1 2. (Previously presented): The method of claim 1 further comprising:
2 synchronizing audio information at the presentation recorder device received from
3 the first system or from the capture device with the selected set of keyframes.

1 3. (Previously presented): The method of claim 1 further comprising:
2 storing the set of keyframes in a memory associated with the presentation recorder
3 device.

1 4. (Previously presented): The method of claim 3 further comprising:
2 receiving a request at the presentation recorder device from a device requesting
3 transmission of the one or more keyframes in the set of keyframes;
4 in response to the request, determining at the presentation recorder device [[the]]
5 the one or more keyframes in the set of keyframes requested by the device and corresponding
6 audio information; and
7 wherein communicating at least a portion of the presentation representation
8 further comprises transmitting the corresponding audio information from the presentation
9 recorder device to the device.

1 5. (Previously presented): The method of claim 4 wherein the request
2 received from the device requests transmission of a portion of the first information received by
3 the presentation recorder device from the first system.

1 6. (Previously presented): The method of claim 4 wherein the request
2 received from the device requests transmission of a portion of the second information received
3 by the presentation recorder device from the capture device.

1 7. (Previously presented): The method of claim 4 wherein the request
2 received from the device requests transmission of audio information from the first information or
3 the second information received by the presentation recorder device.

1 8. (Previously presented): The method of claim 4 wherein the request
2 received from the device requests transmission of video information from the first information or
3 the second information received by the presentation recorder device.

1 9. (Previously presented): The method of claim 4 wherein the request
2 received from the device requests transmission of audio or video information received by the
3 presentation recorder device from the first system and the capture device between a start time
4 and an end time.

1 10. (Currently amended): The method of claim 1 further comprising:
2 ~~selecting the one or more keyframes at the presentation recorder device from~~
3 ~~video information in the first information or the second information;~~
4 synchronizing the [[the]] one or more keyframes at the presentation recorder
5 device with audio information received from the first system and with audio information
6 received from the capture device; and
7 storing third information using the presentation recorder device associating the
8 one or more keyframes with the audio information received from the first device, the audio
9 information received from the capture device, and the portion of the textual information.

1 11. (Currently amended): The method of claim 10 further comprising:
2 generating a web page with the presentation recorder device for each keyframe in
3 the one or more keyframes, each web page including a video frame;

4 assigning a uniform resource locator (URL) with the presentation recorder device
5 to each web page; and
6 wherein communicating at least a portion of the presentation representation
7 comprises transmitting at least one URL assigned to a web page from the presentation recorder
8 device to the one or more devices.

1 12. (Currently amended): The method of claim 11 further comprising:
2 receiving a request at the presentation recorder device from a device identifying a
3 first URL;
4 in response to the request, determining [[at]] with the presentation recorder device
5 a first web page corresponding to the first URL; and
6 wherein communicating at least a portion of the presentation representation
7 comprises transmitting the first web page from the presentation recorder device to the device.

1 13. (Previously presented): The method of claim 1 wherein selecting the set
2 of one or more keyframes at the presentation recorder device in response to the user-configurable
3 threshold comprises selecting at the presentation recorder device frames of video at a
4 predetermined sampling interval.

1 14. (Currently amended): A ~~computer program product stored on a computer~~
2 readable storage medium ~~and executed by an adapter~~ configured to store computer program code
3 executable by a presentation recorder device for communicating information received during a
4 multimedia presentation, the computer readable storage medium comprising:

5 code for receiving first information ~~at the adapter~~ from a first system, the first
6 information comprising at least one of video information or audio information generated from a
7 presentation file;

8 code for receiving second information ~~at the adapter~~ from a capture device, the
9 second information including at least one of video information or audio information captured by
10 the capture device during the multimedia presentation;

code for analyzing video information received from the first system or video information received from the capture device ~~at the presentation recorder device~~ to determine a textual difference between a first video frame and a second video frame using one or more optical character recognition techniques;

code for selecting a set of one or more keyframes from the analyzed video information received from the first system or analyzed video information received from the capture device ~~at the adapter~~ in response to a user-configurable threshold and the textual difference between a first video frame and a second video frame;

code for analyzing the first information and the second information ~~at the adapter~~ to extract textual information from video information or the audio information in the first information or video information or the audio information in the second information using one or more text recognition techniques;

code for generating a presentation representation ~~at the adapter~~ of the first information and the second information, the presentation representation including a representation of each keyframe in the set of keyframes and the textual information extracted ~~by the adapter~~ from the first information or the second information;

code for communicating at least a portion of the presentation representation ~~from the adapter~~ to one or more devices, the communicated portion of the presentation representation including one or more keyframes from the set of keyframes and a portion of the textual information.

15. (Currently amended): The computer readable storage medium ~~program~~ ~~product~~ of claim 14 further comprising:

code for synchronizing audio information ~~at the adapter~~ received from the first system or from the capture device with the selected set of keyframes.

16. (Currently amended): The computer readable storage medium ~~program~~ ~~product~~ of claim 14 further comprising:

code for storing the set of keyframes in a memory coupled to the adapter.

1 17. (Currently amended): The computer readable storage medium ~~program~~
2 ~~product~~ of claim 16 further comprising:
3 code for receiving ~~at the adapter~~ a request from a device requesting transmission
4 of the one or more keyframes in the set of keyframes;
5 in response to the request, code for determining the one or more keyframes in the
6 set of keyframes requested by the device and corresponding audio information; and
7 wherein the code for communicating at least a portion of the presentation
8 representation further comprises code for transmitting the corresponding audio information ~~from~~
9 ~~the adapter~~ to the device.

1 18. (Currently amended): The computer readable storage medium ~~program~~
2 ~~product~~ of claim 17 wherein the request received from the device requests transmission of a
3 portion of the first information received ~~by the adapter~~ from the first system.

1 19. (Currently amended): The computer readable storage medium ~~program~~
2 ~~product~~ of claim 17 wherein the request received from the device requests transmission of a
3 portion of the second information received ~~by the adapter~~ from the capture device.

1 20. (Currently amended): The computer readable storage medium ~~program~~
2 ~~product~~ of claim 17 wherein the request received from the device requests transmission of audio
3 information from the first information or the second information received ~~by the adapter~~ from the
4 first system and the capture device.

1 21. (Currently amended): The computer readable storage medium ~~program~~
2 ~~product~~ of claim 17 wherein the request received from the device requests transmission of video
3 information from the first information or the second information received ~~by the adapter~~ from the
4 first system and the capture device.

1 22. (Currently amended): The computer readable storage medium ~~program~~
2 ~~product~~ of claim 17 wherein the request received from the device requests transmission of audio

3 or video information received ~~by the adapter~~ from the first system and the capture device
4 between a start time and an end time.

1 23. (Currently amended): The computer readable storage medium ~~program~~
2 ~~product~~ of claim 14 further comprising:
3 ~~code for selecting a the one or more keyframes at the adapter from video~~
4 ~~information in the first information or the second information received from the first system and~~
5 ~~from the capture device;~~
6 code for synchronizing the one or more keyframes ~~at the adapter~~ with audio
7 information received from the first system and with audio information received from the capture
8 device; and
9 code for storing third information associating the one or more keyframes with the
10 audio information received from the first system, the audio information received from the
11 capture device, and the portion of textual information.

1 24. (Currently amended): The computer readable storage medium ~~program~~
2 ~~product~~ of claim 23 comprising:
3 code for generating a web page for each keyframe in the one or more keyframes,
4 each web page including a video frame;
5 code for assigning a uniform resource locator (URL) to each web page; and
6 wherein the code for communicating at least a portion of the presentation
7 representation comprises code for transmitting at least one URL assigned to a web page to the
8 one or more devices.

1 25. (Currently amended): The computer readable storage medium ~~program~~
2 ~~product~~ of claim 24 further comprising:
3 code for receiving a request ~~at the adapter~~ from a device identifying a first URL;
4 in response to the request, code for determining ~~at the adapter~~ a first web page
5 corresponding to the first URL; and

6 wherein the code for communicating at least a portion of the presentation
7 representation comprises code for transmitting the first web page ~~from the adapter~~ to the device.

1 26. (Currently amended): The computer ~~readable storage medium program~~
2 ~~product~~ of claim 23 wherein the code for analyzing video information or the audio information in
3 the first information ~~[[and]] or video information or the audio information in~~ the second
4 information ~~at the adapter~~ to extract textual information from the first information or the second
5 information using one or more text recognition techniques comprises:

6 code for ~~generating the portion of~~ obtaining the textual information ~~at the adapter~~
7 from the audio information received from the capture device in response to a speech recognition
8 technique;

9 code for identifying a speaker associated with the audio information received
10 from the capture device ~~at the adapter~~ based on a voice recognition technique; and
11 ~~wherein storing the third information comprises~~ code for annotating the textual
12 information in the presentation representation ~~at the adapter~~ with information associated with the
13 identified speaker.

1 27. (Currently amended): A system for communicating information received
2 during a multimedia presentation, the system comprising:

3 a processor; and

4 a memory coupled to the processor and configured to store a set of program
5 modules executable by the processor, the program modules comprising:

6 an input module configured to:

7 receive first information from a first system, the first information
8 including at least one of video information or audio information generated from a presentation
9 file,

10 receive second information from a capture device, the second
11 information including at least one of video information or audio information captured by the
12 capture device during the multimedia presentation;

13 a processing module configured to:

analyzing video information received from the first system or video information received from the capture device to determine a textual difference between a first video frame and a second video frame using one or more optical character recognition techniques,

select a set of one or more keyframes from the analyzed video information received from the first system or the analyzed video information received from the capture device based on the textual difference between a first video frame and a second video frame in response to a user-configurable threshold,

analyze the first information and the second information to extract textual information from the first information or the second information using one or more text recognition techniques, and

generate a presentation representation of the first information and the second information, the presentation representation including a representation of each keyframe in the set of keyframes and the textual information extracted by the presentation recorder device from the first information or the second information; and

a communication module configured to communicate at least a portion of the presentation representation to one or more devices, the communicated portion of the presentation representation including one or more keyframes from the set of keyframes and a portion of the textual information.

28. (Previously presented): The system of claim 27 wherein the processing module is further configured to synchronize audio information received from the first system or the capture device with the selected set of keyframes.

29. (Previously presented): The system of claim 27 wherein the processing module is further configured to store the selected set of keyframes in a storage device.

30. (Previously presented): The system of claim 29 wherein the processing module is further configured to:

3 receive a request from a device requesting transmission of the one or more
4 keyframes in the set of keyframes;
5 determine, in response to the request, the one or more keyframes in the set of
6 keyframes requested by the device and corresponding audio information; and
7 wherein the communication module is further configured to communicate at least
8 a portion of the presentation representation by transmitting the corresponding audio information
9 to the device.

1 31. (Previously presented): The system of claim 30 wherein the request
2 received from the device requests transmission of a portion of the first information received from
3 the first system.

1 32. (Previously presented): The system of claim 30 wherein the request
2 received from the device requests transmission of a portion of the second information received
3 from the capture device.

1 33. (Previously presented): The system of claim 30 wherein the request
2 received from the device requests transmission of audio information from the first information or
3 the second information received from the first system and the capture device.

1 34. (Previously presented): The system of claim 30 wherein the request
2 received from the device requests transmission of video information from the first information or
3 the second information received from the first system and the capture device.

1 35. (Previously presented): The system of claim 30 wherein the request
2 received from the device requests transmission of audio or video information received from the
3 first system and the capture device between a start time and an end time.

1 36. (Previously presented): The system of claim 29 wherein the processing
2 module is further configured to;

3 select the one or more keyframes in the set of keyframes as a plurality of video
4 frames from video information received by the input module;
5 synchronize the plurality of video frames with audio information received from
6 the first system and with audio information received from the capture device by the input
7 module; and
8 store third information associating the plurality of video frames with the audio
9 information received from the first device, the audio information received from the second
10 device, and the portion of the textual information.

1 37. (Currently amended): The system of claim 36 wherein the processing
2 module is further configured to:
3 generate a web page for each video frame in the plurality of video frames,
4 each web page including a video frame, and
5 assign a uniform resource locator (URL) to each web page; and
6 wherein the communication module is further configured to communicate at least
7 a portion of the presentation representation by transmitting at least one URL assigned to a web
8 page to the one or more devices.

1 38. (Previously presented): The system of claim 37 wherein the processing
2 module is further configured to:
3 receive a request from a device identifying a first URL, and
4 determine, in response to the request, a first web page corresponding to the first
5 URL; and
6 wherein the communication module is further configured to communicate at least
7 a portion of the presentation representation by transmitting the first web page to the device.

1 39. (Previously presented): The system of claim 36 wherein the processing
2 module is further configured to:
3 receive a request from a device requesting transmission of a set of video frames
4 from the plurality of video frames; and

5 wherein, in response to the request, the communication module is further
6 configured to communicate at least a portion of the presentation representation by transmitting
7 the set of video frames to the device.

1 40. (Currently amended): A method of communicating information received
2 during presentation of information from a presentation file, the method comprising:

3 receiving, at a presentation adapter, at least one of video information or audio
4 information from a first data processing system communicably coupled to the presentation
5 adapter, the at least one of video information or audio information received during presentation
6 of the information from the presentation file and generated as a result of outputting contents of
7 the presentation file;

8 analyzing, [[at]] with the presentation adapter, video information received from
9 the first data processing system to determine a textual difference between a first video frame and
10 a second video frame using an optical character recognition technique;

11 selecting, at the presentation adapter, a set of one or more keyframes from the
12 analyzed video information received from the first data processing system based on the textual
13 difference between a first video frame and second video frame in response to a user-configurable
14 threshold;

15 analyzing, at the presentation adapter, audio information received from the first
16 data processing system to extract textual information using one or more text recognition
17 techniques;

18 generating, at the presentation adapter, a representation of the presentation file
19 including a representation of each keyframe in the set of keyframes and the textual information
20 extracted from the audio information;

21 transmitting the representation of the presentation file from the presentation
22 adapter including one or more keyframes of the set of keyframes and a portion of the textual
23 information to a second data processing system, wherein the second data processing system is
24 enabled to output the at least a portion of the representation of the presentation file received from
25 the presentation adapter.

1 41. (Currently amended): The method of claim 40 wherein analyzing the
2 video information received from the first data processing system comprises:
3 comparing a first frame of video to a subsequent second frame of video;
4 identifying the second frame as textually different from the first frame; and
5 storing both the first frame of video and the second frame of video.

1 42. (Currently amended): The method of claim 41 wherein comparing a first
2 frame of video to a subsequent second frame of video further comprises:
3 comparing image pixels of the first frame of video and the second frame of video
4 ~~or comparing results of optical character recognition (OCR) with the first frame and results of~~
5 ~~OCR with the second frame.~~

1 43. (Previously presented): The method of claim 40 wherein analyzing audio
2 information received from the first data processing system comprises:
3 determining a portion of the textual information in response to applying speech
4 recognition at the presentation adapter to the audio information.

1 44. (Currently amended): The computer readable storage medium ~~program~~
2 ~~product~~ of claim 14 wherein the code for analyzing the video information received from the first
3 system or video information received from the capture device comprises:
4 code for comparing a first frame of video to a subsequent second frame of video;
5 code for identifying the second frame as textually different from the first frame;
6 and
7 code for storing both the first frame of video and the second frame of video.

1 45. (Currently amended): The computer readable storage medium ~~program~~
2 ~~product~~ of claim 44 wherein the code for comparing a first frame of video to a subsequent
3 second frame of video further comprises:

4 code for comparing image pixels of the first frame of video and the second frame
5 of video ~~or comparing results of optical character recognition (OCR) with the first frame and~~
6 ~~results of OCR with the second frame.~~

1 46. (Currently amended): The computer readable storage medium ~~program~~
2 ~~product~~ of claim 14 wherein the code for analyzing the first information or the second
3 information ~~audio information received from the first data processing system~~ comprises:

4 code for determining a portion of the textual information in response to applying
5 speech recognition ~~at the presentation adapter~~ to [[the]] audio information in the first information
6 or the second information.

1 47. (Currently amended): The computer readable storage medium ~~program~~
2 ~~product~~ of claim 14 wherein the code for selecting the set of keyframes in response to the user-
3 configurable threshold comprises code for selecting frames of video at a predetermined sampling
4 interval.